

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/561,339
Source: JFW,P
Date Processed by STIC: 12/29/2005

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DATE: 12/29/2005

PATENT APPLICATION: US/10/561,339

TIME: 15:10:35

Input Set : A:\Hogan-Gene, 00914-03.txt
 Output Set: N:\CRF4\12292005\J561339.raw

3 <110> APPLICANT: University of Virginia Patent Foundation
 4 Hogan, Kevin T.
 5 Slingluff, Craig L.
 7 <120> TITLE OF INVENTION: TAG-1 and TAG-2 Proteins and Uses Thereof
 9 <130> FILE REFERENCE: 00914-03
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/561,339
 C--> 11 <141> CURRENT FILING DATE: 2005-12-19
 11 <150> PRIOR APPLICATION NUMBER: 60/484,077
 12 <151> PRIOR FILING DATE: 2003-07-01
 14 <150> PRIOR APPLICATION NUMBER: PCT/US/2004/021168
 15 <151> PRIOR FILING DATE: 2004-07-01
 17 <160> NUMBER OF SEQ ID NOS: 46
 19 <170> SOFTWARE: PatentIn version 3.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 1319
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Homo sapiens
 26 <400> SEQUENCE: 1
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 29 ctccccacagt gcagcgccgg gctgaaggac tcctcaagtgc ccaccaaagt gggagcccg 120
 31 gcagaggagg cgccgagagc gagcgagggc tgcctgcag caccgtgtca cgtctcagca 180
 33 atagactgct cttgaggctg gactgcaatg ttgttatcat agctcactgc aaccttggaa 240
 35 ccctagtctc aagagatcct ccagcctcag cctccctggg atggctattt ttgttacttc 300
 37 tgaattctac tacaaaagag tgctgcaata aaaatcttg aacaagtct aatgccgttc 360
 39 aactggaatt gaagtttca atcggtggat atgtcaaat ttaatcagat tgtatattgc 420
 41 tcaattactt tcaaattatg tacaccaagt cattttgct ctggcaaat aagaatattt 480
 43 tcattaatat atcattcaac ttgaaattgc ccagctttc cttctcattt cccccccagtc 540
 45 aaatgagttt aattaatact gtcataaat atatattcat ttgcttacat gttatgtttt 600
 47 gttccatgtt ttaagaagct ttgcttagat atgaaaat atgttattacc atgtcttgt 660
 49 aatttagtact tttatcattt tggaaatgttt gtttctt cttgtgaccg ttctaacctg 720
 51 ggtatctatt ttgactgggtt ttaatgtaa ctactaacat cttttatgt tcagcacttt 780
 53 ttccacaattt tactttcaat gtcttttattt taaaatgtt tttctgttag acagtgtaca 840
 55 ggttgtcttg ttttattgtt aatcaagtga caatcttat ttccataattt acatatttt 900
 57 tccatataata tttaattttt ttgttgttat ttgagactt aatattccagt ttactattt 960
 59 tggcccattt atttttgggtt tatttttagat gtcttgctt atcttagatt gattgatatt 1020
 61 tttagtattt aattacattt cttttataaa tgtaatttct tgaatattt tttttatattt 1080
 63 agcaattgtct ctggaaatataaaaatcatc tttaaaatct atttagaggat aatgtacta 1140
 65 ctttatgcag tagttaaaaa catttcacta gcacaatttc atttgcaggc acctaaccctt 1200
 67 ctgtgtatgtt attgtcttattt attgttataat ttatgagata caatcactac agtaaaatac 1260
 69 tattttctat tcatttgcc atcttataaa taaacagatg aataaacaga tatttttga 1319
 72 <210> SEQ ID NO: 2
 73 <211> LENGTH: 670
 74 <212> TYPE: DNA

CP9-67

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Input Set : A:\Hogan-Gene, 00914-03.txt
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75 <213> ORGANISM: Homo sapiens
 77 <400> SEQUENCE: 2
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 80 ctcccacagt gcagcgccgg gctgaaggac tcctcaagtg ccaccaaagt gggagcccg 120
 82 gcagaggagg cgccgagagc gagcgaggcc tgcctgccag cacgctgtca cgtctcagca 180
 84 atagactgct cttgaggctg gagtgcaatg ttgttatcat agtcactgc aacctggaac 240
 86 ccctagtctc aagagatcct ccagcctcag cctccctgtt ccaggataca tgtcaggat 300
 88 gtgcaagttt gctacatggg taaatatgtg ccatggcagt ttgctgcatt tattaaccca 360
 90 ttaccttaggt attaagcccg atacaagagt tatggaaaag ctgcactttt ctacttccaa 420
 92 agtttaactt cttcacagaa gtcagttca gagttgagaa aagcaaatac ttgctacata 480
 94 tttgaggaa caataagtat tgaagttca aacagttct atggatattt gtcaacagaa 540
 96 gatacgctat cacaatgcg cagagaggtt gaaaaatgac acaatgacca ccctaccctc 600
 98 tgagtctc aattgtttt tcagtagtattt tctactctgg tccttggttta ataaaacctc 660
 100 tttctcctta 670
 103 <210> SEQ ID NO: 3
 104 <211> LENGTH: 541
 105 <212> TYPE: DNA
 106 <213> ORGANISM: Homo sapiens
 108 <400> SEQUENCE: 3
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 111 ctcccacagt gcagcgccgg gctgaaggac tcctcaagtg ccaccaaagt gggagcccg 120
 113 gcagaggagg cgccgagagc gagcgaggcc tgcctgccag cacgctgtca cgtctcagca 180
 115 atagactgct cttgaggctg gagtgcaatg ttgttatcat agtcactgc aacctggaac 240
 117 ccctagtctc aagagatcct ccagcctcag cctccctgtt ccaggataca tgtcaggat 300
 119 gtgcaagttt gctacatggg taaatatgtg ccatggcagt ttgctgcatt tattaaccca 360
 121 ttaccttaggt attaagcccg gaaataagaatggcagaaaa ttgtgaagagt tattgtgtgg 420
 123 ggaagtggcc tctacataga aatgtttt cactgaatgt tcctgttgtt ctgtatgaaca 480
 125 aaggagttca tcacaggcca gaaactaaga tagatagata aataaataaaa taaataaata 540
 127 a 541
 130 <210> SEQ ID NO: 4
 131 <211> LENGTH: 624
 132 <212> TYPE: DNA
 133 <213> ORGANISM: Homo sapiens
 135 <400> SEQUENCE: 4
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 138 ctcccacagt gcagcgccgg gctgaaggac tcctcaagtg ccaccaaagt gggagcccg 120
 140 gcagaggagg cgccgagagc gagcgaggcc tgcctgccag cacgctgtca cgtctcagca 180
 142 atagactgct cttgaggctg gagtgcaatg ttgttatcat agtcactgc aacctggaac 240
 144 ccctagtctc aagagatcct ccagcctcag cctccctgtt ccaggataca tgtcaggat 300
 146 gtgcaagttt gctacatggg taaatatgtg ccatggcagt ttgctgcatt tattaaccca 360
 148 ttaccttaggt attaagcccg atcccgaaaa acctgcagag agaagcagca gctggacctc 420
 150 gggatgacta tggctggacg tcaggagaga agcaatttga ttccagaggg acagctttagt 480
 152 ggtgttaactt cagagaagaa tctgggtttaga gatggctaga ctccagaaaa agattaccta 540
 154 cccttccccctt acccttttct cagctcccttcc tcccaacttgc agccactttc accgcaataa 600
 156 aatccccccac atgcacttcc ttcc 624
 159 <210> SEQ ID NO: 5
 160 <211> LENGTH: 542
 161 <212> TYPE: DNA
 162 <213> ORGANISM: Homo sapiens

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164 <400> SEQUENCE: 5
165 ctcccacaccg ctttgcAACgc tgagggagcc ggctccggcc tctgccAGCC caggaaggGGG 60
167 ctcccacagt gcagcggcGG gctgaaggac tcctcaAGTg ccaccaaAGT gggagcccAG 120
169 gcagaggagg cgccgagAGC gagcggaggc tgcctGCCAG cacgctgtCA cgtctcAGCA 180
171 atagactgCT cttgagttcc aggatacatg tgcaggatgt gcaagttgc tacatgggta 240
173 aatatgtGCC atggcagTTt gctgcATctA ttaACCatt accttaggtat taagcccGAT 300
175 cccagaaaAC ctgcagAGAG aagcAGcAGC tggacCTCGG gatgactatg gctggacGTC 360
177 aggagagaAG cagttgact tcagaggGAc agcttgatgg tgtaacttca gagaagaATC 420
179 tggtagaga tggctagact ccaggAAAAG attacctacc cttccccTAC cctttctca 480
181 gctcccTTc ccactgagAG ccactttcac cgcaataAAA tcccccacat gcactatcct 540
183 tc 542
186 <210> SEQ ID NO: 6
187 <211> LENGTH: 99
188 <212> TYPE: PRT
189 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 6
193 Leu Pro Ala Gln Glu Gly Ala Pro Thr Val Gln Arg Arg Ala Glu Gly
194 1 5 10 15
197 Leu Leu Lys Cys His Gln Ser Gly Ser Pro Gly Arg Gly Ala Glu
198 20 25 30
201 Ser Glu Arg Gly Leu Pro Ala Ser Thr Leu Ser Arg Leu Ser Asn Arg
202 35 40 45
205 Leu Leu Leu Arg Leu Glu Cys Asn Val Val Ile Ile Ala His Cys Asn
206 50 55 60
209 Leu Glu Pro Leu Val Ser Arg Asp Pro Pro Ala Ser Ala Ser Leu Gly
210 65 70 75 80
213 Trp Leu Phe Leu Leu Leu Asn Ser Thr Thr Lys Glu Cys Cys Asn
214 85 90 95
217 Lys Asn Leu
221 <210> SEQ ID NO: 7
222 <211> LENGTH: 63
223 <212> TYPE: PRT
224 <213> ORGANISM: Homo sapiens
226 <400> SEQUENCE: 7
228 Leu Pro Ala Ser Thr Leu Ser Arg Leu Ser Asn Arg Leu Leu Leu Arg
229 1 5 10 15
232 Leu Glu Cys Asn Val Val Ile Ile Ala His Cys Asn Leu Glu Pro Leu
233 20 25 30
236 Val Ser Arg Asp Pro Pro Ala Ser Ala Ser Leu Gly Trp Leu Phe Leu
237 35 40 45
240 Leu Leu Leu Asn Ser Thr Thr Lys Glu Cys Cys Asn Lys Asn Leu
241 50 55 60
244 <210> SEQ ID NO: 8
245 <211> LENGTH: 59
246 <212> TYPE: PRT
247 <213> ORGANISM: Homo sapiens
249 <400> SEQUENCE: 8
251 Thr Leu Ser Arg Leu Ser Asn Arg Leu Leu Leu Arg Leu Glu Cys Asn
252 1 5 10 15

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Input Set : A:\Hogan-Gene, 00914-03.txt
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255 Val Val Ile Ile Ala His Cys Asn Leu Glu Pro Leu Val Ser Arg Asp
256 20 25 30
259 Pro Pro Ala Ser Ala Ser Leu Gly Trp Leu Phe Leu Leu Leu Asn
260 35 40 45
263 Ser Thr Thr Lys Glu Cys Cys Asn Lys Asn Leu
264 50 55
267 <210> SEQ ID NO: 9
268 <211> LENGTH: 93
269 <212> TYPE: PRT
270 <213> ORGANISM: Homo sapiens
272 <400> SEQUENCE: 9
274 Leu Pro Ala Gln Glu Gly Ala Pro Thr Val Gln Arg Arg Ala Glu Gly
275 1 5 10 15
278 Leu Leu Lys Cys His Gln Ser Gly Ser Pro Gly Arg Gly Ala Glu
279 20 25 30
282 Ser Glu Arg Gly Leu Pro Ala Ser Thr Leu Ser Arg Leu Ser Asn Arg
283 35 40 45
286 Leu Leu Leu Arg Leu Glu Cys Asn Val Val Ile Ile Ala His Cys Asn
287 50 55 60
290 Leu Glu Pro Leu Val Ser Arg Asp Pro Pro Ala Ser Ala Ser Leu Phe
291 65 70 75 80
294 Gln Asp Thr Cys Ala Gly Cys Ala Ser Leu Leu His Gly
295 85 90
298 <210> SEQ ID NO: 10
299 <211> LENGTH: 57
300 <212> TYPE: PRT
301 <213> ORGANISM: Homo sapiens
303 <400> SEQUENCE: 10
305 Leu Pro Ala Ser Thr Leu Ser Arg Leu Ser Asn Arg Leu Leu Leu Arg
306 1 5 10 15
309 Leu Glu Cys Asn Val Val Ile Ile Ala His Cys Asn Leu Glu Pro Leu
310 20 25 30
313 Val Ser Arg Asp Pro Pro Ala Ser Ala Ser Leu Phe Gln Asp Thr Cys
314 35 40 45
317 Ala Gly Cys Ala Ser Leu Leu His Gly
318 50 55
321 <210> SEQ ID NO: 11
322 <211> LENGTH: 53
323 <212> TYPE: PRT
324 <213> ORGANISM: Homo sapiens
326 <400> SEQUENCE: 11
328 Thr Leu Ser Arg Leu Ser Asn Arg Leu Leu Arg Leu Glu Cys Asn
329 1 5 10 15
332 Val Val Ile Ile Ala His Cys Asn Leu Glu Pro Leu Val Ser Arg Asp
333 20 25 30
336 Pro Pro Ala Ser Ala Ser Leu Phe Gln Asp Thr Cys Ala Gly Cys Ala
337 35 40 45
340 Ser Leu Leu His Gly
341 50

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Input Set : A:\Hogan-Gene, 00914-03.txt
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344 <210> SEQ ID NO: 12
345 <211> LENGTH: 9
346 <212> TYPE: PRT
347 <213> ORGANISM: Homo sapiens
349 <400> SEQUENCE: 12
351 Arg Leu Ser Asn Arg Leu Leu Leu Arg
352 1 5
355 <210> SEQ ID NO: 13
356 <211> LENGTH: 9
357 <212> TYPE: PRT
358 <213> ORGANISM: Artificial Sequence
360 <220> FEATURE:
361 <223> OTHER INFORMATION: Synthetic derivative of SEQ ID NO: 12
363 <220> FEATURE:
364 <221> NAME/KEY: MISC_FEATURE
365 <222> LOCATION: (1)..(1)
366 <223> OTHER INFORMATION: wherein X is His, Arg or Lys
369 <400> SEQUENCE: 13
W--> 371 Xaa Leu Ser Asn Arg Leu Leu Leu Arg
372 1 5
375 <210> SEQ ID NO: 14
376 <211> LENGTH: 9
377 <212> TYPE: PRT
378 <213> ORGANISM: Artificial Sequence
380 <220> FEATURE:
381 <223> OTHER INFORMATION: Synthetic derivative of SEQ ID NO: 12
383 <220> FEATURE:
384 <221> NAME/KEY: MISC_FEATURE
385 <222> LOCATION: (2)..(2)
386 <223> OTHER INFORMATION: wherein X is Met Leu, Ile or Val
389 <400> SEQUENCE: 14
W--> 391 Arg Xaa Ser Asn Arg Leu Leu Leu Arg
392 1 5
395 <210> SEQ ID NO: 15
396 <211> LENGTH: 9
397 <212> TYPE: PRT
398 <213> ORGANISM: Artificial Sequence
400 <220> FEATURE:
401 <223> OTHER INFORMATION: Synthetic derivative of SEQ ID NO: 12
403 <220> FEATURE:
404 <221> NAME/KEY: MISC_FEATURE
405 <222> LOCATION: (3)..(3)
406 <223> OTHER INFORMATION: X is Ala, Ser, Thr, Pro or Gly
409 <400> SEQUENCE: 15
W--> 411 Arg Leu Xaa Asn Arg Leu Leu Leu Arg
412 1 5
415 <210> SEQ ID NO: 16
416 <211> LENGTH: 9
417 <212> TYPE: PRT

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; Xaa Pos. 1 //
Seq#:14; Xaa Pos. 2 //
Seq#:15; Xaa Pos. 3
Seq#:16; Xaa Pos. 4
Seq#:17; Xaa Pos. 5
Seq#:18; Xaa Pos. 6
Seq#:19; Xaa Pos. 7
Seq#:20; Xaa Pos. 8
Seq#:21; Xaa Pos. 9
Seq#:44; Xaa Pos. 2,6,7,8

VERIFICATION SUMMARY
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Input Set : A:\Hogan-Gene, 00914-03.txt
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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0